

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WD2XNX

(Call Sign)

0429-EX-CR-2019

(File Number)

NAME BOEING COMPANY, THE

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(g) of the Commission's Rules

Station Locations

(1) Algona (KING), WA - NL 47-16-33; WL 122-14-23

Frequency Information

Algona (KING), WA - NL 47-16-33; WL 122-14-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-1164.45 MHz	FX	N0N	334 mW (ERP)	
1188.45-1215.59 MHz	FX	N0N	334 mW (ERP)	
1.298-1.507 GHz	FX	N0N	500 mW (ERP)	
1.625-1.661 GHz	FX	N0N	608 mW (ERP)	

This authorization effective October 02, 2019 and
will expire 3:00 A.M. EST October 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.85-1.91 GHz	FX	N0N	804 mW (ERP)	
1.93-1.99 GHz	FX	N0N	873 mW (ERP)	
2.16-2.24 GHz	FX	N0N	1106 mW (ERP)	
2.246-2.255 GHz	FX	N0N	1120 mW (ERP)	
2.36-3.014 GHz	FX	N0N	2002 mW (ERP)	
3.24-3.36 GHz	FX	N0N	2488 mW (ERP)	
3.54-4.11 GHz	FX	N0N	3722 mW (ERP)	
4.29-4.48 GHz	FX	N0N	1966 mW (ERP)	
4.72-5.48 GHz	FX	N0N	2941 mW (ERP)	
6.58-6.7 GHz	FX	N0N	4396 mW (ERP)	

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7.238-7.37 GHz	FX	N0N	5319 mW (ERP)	
9.3-9.631 GHz	FX	N0N	3525 mW (ERP)	
9.834-9.856 GHz	FX	N0N	3692 mW (ERP)	
9.87-10.05 GHz	FX	N0N	3839 mW (ERP)	
10.55-10.57 GHz	FX	N0N	4246 mW (ERP)	
11.33-12.7 GHz	FX	N0N	6130 mW (ERP)	
13.16-13.43 GHz	FX	N0N	4416 mW (ERP)	
16.98-17.02 GHz	FX	N0N	7092 mW (ERP)	
17.88-18.27 GHz	FX	N0N	8172 mW (ERP)	
18.68-18.72 GHz	FX	N0N	8580 mW (ERP)	

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19.18-19.22 GHz	FX	N0N	9044 mW (ERP)	
19.67-19.71 GHz	FX	N0N	9511 mW (ERP)	
20.6-21.8 GHz	FX	N0N	11635 mW (ERP)	
22.66-23.98 GHz	FX	N0N	14079 mW (ERP)	
24.38-24.42 GHz	FX	N0N	14600 mW (ERP)	
25.47-25.53 GHz	FX	N0N	15958 mW (ERP)	
26.82-26.88 GHz	FX	N0N	10060 mW (ERP)	
28.77-28.83 GHz	FX	N0N	11572 mW (ERP)	
30.9-31.3 GHz	FX	N0N	15365 mW (ERP)	
31.8-33.22 GHz	FX	N0N	15365 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.96-34.04 GHz	FX	N0N	16133 mW (ERP)	
35.75-36.54 GHz	FX	N0N	18589 mW (ERP)	
36.57-36.63 GHz	FX	N0N	18681 mW (ERP)	
38.36-38.44 GHz	FX	N0N	20573 mW (ERP)	

Special Conditions:

- (1) Assignment in frequency band 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Northwest Coordinator, Seattle, WA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Northwest Coordinator, Seattle, WA, as necessary to ensure compatibility with existing uses.
- (2) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, TX, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with AFMO CONUS, Ft. Sam Houston, TX, as necessary to ensure compatibility with existing uses.
- (3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Testing on 4290-4480 MHz shall not interfere with the operations of altimeters and avoid pointing antennas in the upwards direction.
- (6) Operation is NOT PERMITTED on the frequency bands 800-806 MHz, 1201.5-1202.5 MHz.
- (7) Operation in the band 3650-3700 MHz requires consent of grandfathered satellite earth stations in accordance with 47 CFR, Part 90.1331(a)(1), (a)(2) and (a)(3).
- (8) The designated point-of-contact to terminate the systems if interference occurs is Stephen Henning, 206-544-8386/206-949-4469 and Raymond Robinson 206-766-5484/425-283-8201.

Special Conditions:

- (9) Operation is subject to prior coordination with FAA Great Lakes regional Office, 2300 East Avenue, Des Plaines, Illinois 60018 PH 312-694-7071.

- (10) Operation is NOT PERMITTED using the following frequency bands:
 - 976-980 MHz
 - 1000-1002 MHz
 - 1006-1008 MHz
 - 1014-1016 MHz
 - 1024-1036 MHz
 - 1084-1096 MHz